

METHOD FOR AMPLIFYING HEMATOPOIETIC STEM CELL

Publication number: JP2004222502 (A)

Publication date: 2004-08-12

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Classification:

- **international:** **C12N5/06; A61K35/14; A61P7/00; C12N5/06; A61K35/14; A61P7/00;** (IPC1-7): C12N5/06; A61K35/14; A61P7/00

- **European:**

Application number: JP20030010318 20030117

Priority number(s): JP20030010318 20030117

Abstract of **JP 2004222502 (A)**

PROBLEM TO BE SOLVED: To provide a method for simply and safely amplifying a hematopoietic stem cell or a precursor cell in a large amount according to in vitro culture by using a stromal cell obtained from a placenta or an umbilical cord. ; **SOLUTION:** The method for amplifying the hematopoietic stem cell is to culture a human hematopoietic stem cell or the precursor cell in the coexistence of the stromal cell derived from a human placental tissue or an umbilical cord tissue and thereby amplify the human placental hematopoietic stem cell or precursor cell. The culture is preferably carried out in the presence of a cytokine such as an Flt-3 ligand, thrombopoietin (TPO) and a stem cell factor (SCF). The hematopoietic stem cell having the same characteristics as those of the hematopoietic stem cell used as a source and the multipotency can be obtained in the large amount by co-culturing the hematopoietic stem cell for about 10 days. ; **COPYRIGHT:** (C)2004,JPO&NCIPI

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